

COC #48

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(541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: M106005

CLIENT: Bristol			INVOICE TO: Bristol										TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 <1</div> <div>STD.</div> <div>5 4 3 2 1 <1</div> </div> Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5 4 3 2 1 <1</div> <div>STD.</div> </div> Please Specify <div style="border: 1px solid black; padding: 2px; display: inline-block;">OTHER</div>						
REPORT TO: Anne Kranawetter			P.O. NUMBER: 21090																
ADDRESS: Architka Island, Alaska																			
PHONE: 907.770.0974 FAX: 770.0975																			
PROJECT NAME: Architka			REQUESTED ANALYSES																
PROJECT NUMBER: 21090																			
SAMPLED BY: Anne/Charlie																			
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME	BTEX w/ Naphthalene	DRO ALD 2	PFO AKID 3											MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMRX01SW		6/2/01 1122	✓	✓	✓											W	4		
2. 01AMRX15SL		6/2/01 1125	✓	✓	✓											S	2	01AMRX15SL	
3. 01AMRX016W		6/2/01 1155	✓	✓	✓											SW	4		
4. 01AMRX02WA		6/2/01 1200	✓													SW	1	01AMRX026W	
5. 01AMRX17SL		6/2/01 1202	✓													S	1	01AMRX17SL	
6.																			
7.																			
8.																			
9.																			
10.																			
11.																			
12.																			
13.																			
14.																			
15.																			

RELINQUISHED BY: <i>Charlie Marshall</i>		DATE: 6/2/01	RECEIVED BY: <i>Steph W. L.</i>		DATE: 6/2/01
PRINT NAME: Charlie Marshall	FIRM: Bristol	TIME: 1426	PRINT NAME: Steph W. L.	FIRM: NCA	TIME: 1426
RELINQUISHED BY:		DATE:	RECEIVED BY:		DATE:
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS: Note: 02WA is water trip, 17SL is a soil trip from BTEX w/ Naph.

D-2 tank

COC REV 3/99

PAGE OF



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541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/02/01 14:26. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M106005



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMRX01SW	M106005-01	Water	06/02/01 11:22	06/02/01 14:26
01AMRXT09SL	M106005-02	Soil	06/02/01 11:25	06/02/01 14:26
01AMRX01GW	M106005-03	Water	06/02/01 11:55	06/02/01 14:26
01AMRX02WA	M106005-04	Water	06/02/01 12:00	06/02/01 14:26
01AMRXT10SL	M106005-05	Soil	06/02/01 12:02	06/02/01 14:26

COC #48

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRX01SW (M106005-01) Water					Sampled: 06/02/01 Received: 06/02/01				
Residual Range Organics	ND	0.500	mg/l	1	AK102/103	06/02/01	06/04/01	0106007	
Diesel Range Organics	ND	0.500	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	105 %	75-125							
<i>Surr: Triacontane</i>	97.5 %	50-150							
01AMRXT09SL (M106005-02) Soil					Sampled: 06/02/01 Received: 06/02/01				
Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	06/02/01	06/03/01	0106005	
Diesel Range Organics	3960	150	"	"	"	"	"	"	D-14
<i>Surr: 1-Chlorooctadecane</i>	101 %	75-125							
<i>Surr: Triacontane</i>	118 %	50-150							
01AMRX01GW (M106005-03) Water					Sampled: 06/02/01 Received: 06/02/01				
Residual Range Organics	13.4	5.00	mg/l	1	AK102/103	06/02/01	06/03/01	0106007	D-11
Diesel Range Organics	223	5.00	"	"	"	"	"	"	D-14a
<i>Surr: 1-Chlorooctadecane</i>	88.5 %	75-125							
<i>Surr: Triacontane</i>	89.5 %	50-150							

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

Polychlorinated Biphenyls per EPA Method 8082

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRXT09SL (M106005-02) Soil					Sampled: 06/02/01 Received: 06/02/01				A-01
Aroclor 1016	ND	167	ug/kg dry	1	EPA 8082	06/04/01	06/04/01	0106015	
Aroclor 1221	ND	334	"	"	"	"	"	"	
Aroclor 1232	ND	167	"	"	"	"	"	"	
Aroclor 1242	ND	167	"	"	"	"	"	"	
Aroclor 1248	ND	167	"	"	"	"	"	"	
Aroclor 1254	ND	167	"	"	"	"	"	"	
Aroclor 1260	ND	167	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	105 %	55-130							
Surr: Decachlorobiphenyl	118 %	55-130							

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

BTEX and MTBE per EPA Method 8021B
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMRX01SW (M106005-01) Water

Sampled: 06/02/01 Received: 06/02/01

Benzene	ND	0.500	ug/l	1	1B BTEX/MTI	06/03/01	06/03/01	0106011	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	

Surr: 4-BFB 91.2 % 75-120

01AMRX01GW (M106005-03) Water

Sampled: 06/02/01 Received: 06/02/01

R-07

Benzene	ND	5.00	ug/l	1	1B BTEX/MTI	06/03/01	06/03/01	0106011	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	100	"	"	"	"	"	"	

Surr: 4-BFB 88.0 % 75-120

01AMRX02WA (M106005-04) Water

Sampled: 06/02/01 Received: 06/02/01

Benzene	ND	0.500	ug/l	1	1B BTEX/MTI	06/03/01	06/03/01	0106011	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	

Surr: 4-BFB 94.0 % 75-120

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMRXT09SL (M106005-02) Soil

Sampled: 06/02/01 Received: 06/02/01

Benzene	ND	0.0604	mg/kg dry	50	1B BTEX/MTI	06/03/01	06/03/01	0106009	
Toluene	ND	0.242	"	"	"	"	"	"	
Ethylbenzene	ND	0.242	"	"	"	"	"	"	
Xylenes (total)	ND	0.483	"	"	"	"	"	"	
Naphthalene	ND	2.42	"	"	"	"	"	"	

Surr: 4-BFB 78.8 % 50-150

01AMRXT10SL (M106005-05) Soil

Sampled: 06/02/01 Received: 06/02/01

Benzene	ND	0.130	mg/kg dry	50	1B BTEX/MTI	06/03/01	06/03/01	0106009	
Toluene	ND	0.519	"	"	"	"	"	"	
Ethylbenzene	ND	0.519	"	"	"	"	"	"	
Xylenes (total)	ND	1.04	"	"	"	"	"	"	
Naphthalene	ND	5.19	"	"	"	"	"	"	

Surr: 4-BFB 92.3 % 50-150

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2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRXT09SL (M106005-02) Soil					Sampled: 06/02/01 Received: 06/02/01				
% Solids	77.7	0.0100 % by Weight		1	Gravimetric	06/02/01	06/03/01	0106010	
01AMRXT10SL (M106005-05) Soil					Sampled: 06/02/01 Received: 06/02/01				
% Solids	100	0.0100 % by Weight		1	Gravimetric	06/02/01	06/03/01	0106010	

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106005 - 3545 ASE

Blank (0106005-BLK1)

Prepared: 06/02/01 Analyzed: 06/03/01

Residual Range Organics	ND	300	mg/kg wet
Diesel Range Organics	ND	150	"

<i>Surr: 1-Chlorooctadecane</i>	22.6	"	23.4	96.6	75-125
<i>Surr: Triacontane</i>	24.1	"	23.4	103	50-150

LCS (0106005-BS1)

Prepared: 06/02/01 Analyzed: 06/03/01

Diesel Range Organics	1310	150	mg/kg wet	1250	105	75-125
<i>Surr: 1-Chlorooctadecane</i>	19.2	"	23.4	82.1	75-125	
<i>Surr: Triacontane</i>	25.6	"	23.4	109	50-150	

LCS Dup (0106005-BSD1)

Prepared: 06/02/01 Analyzed: 06/03/01

Diesel Range Organics	1330	150	mg/kg wet	1250	106	75-125	1.52	20
<i>Surr: 1-Chlorooctadecane</i>	23.4	"	23.4	100	75-125			
<i>Surr: Triacontane</i>	26.3	"	23.4	112	50-150			

Matrix Spike (0106005-MS1)

Source: M105038-03RE1

Prepared: 06/02/01 Analyzed: 06/03/01

Diesel Range Organics	1260	150	mg/kg wet	1180	ND	103	0-200
<i>Surr: 1-Chlorooctadecane</i>	23.6	"	22.2	106	75-125		
<i>Surr: Triacontane</i>	23.8	"	22.2	107	50-150		

Batch 0106007 - 3520B Liq-Liq

Blank (0106007-BLK1)

Prepared: 06/02/01 Analyzed: 06/03/01

Residual Range Organics	ND	0.500	mg/l
Diesel Range Organics	ND	0.500	"

<i>Surr: 1-Chlorooctadecane</i>	0.203	"	0.200	102	75-125
<i>Surr: Triacontane</i>	0.199	"	0.200	99.5	50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106007 - 3520B Liq-Liq

LCS (0106007-BS1)

Prepared: 06/02/01 Analyzed: 06/04/01

Diesel Range Organics	5.23	0.500	mg/l	5.00		105	75-125		
Surr: 1-Chlorooctadecane	0.232		"	0.200		116	75-125		
Surr: Triacontane	0.199		"	0.200		99.5	50-150		

LCS Dup (0106007-BSD1)

Prepared: 06/02/01 Analyzed: 06/03/01

Diesel Range Organics	5.48	0.500	mg/l	5.00		110	75-125	4.67	20
Surr: 1-Chlorooctadecane	0.245		"	0.200		122	75-125		
Surr: Triacontane	0.207		"	0.200		104	50-150		

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering	Project: Amchitka	Reported: 10/25/01 10:06
2000 W International Airport C#1	Project Number: 21090	
Anchorage, AK 99502-1116	Project Manager: Anne Kranawetter	

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106015 - 3545 ASE

Blank (0106015-BLK1)

Prepared & Analyzed: 06/04/01

Aroclor 1016	ND	167	ug/kg wet							
Aroclor 1221	ND	334	"							
Aroclor 1232	ND	167	"							
Aroclor 1242	ND	167	"							
Aroclor 1248	ND	167	"							
Aroclor 1254	ND	167	"							
Aroclor 1260	ND	167	"							
Surr: 2,4,5,6-Tetrachloro-m-xylene	88.7		"	66.7		133	55-130			S-08
Surr: Decachlorobiphenyl	89.3		"	66.7		134	55-130			S-08

LCS (0106015-BS1)

Prepared & Analyzed: 06/04/01

Aroclor 1254	826	167	ug/kg wet	667		124	55-130			
Surr: 2,4,5,6-Tetrachloro-m-xylene	87.2		"	66.7		131	55-130			S-04
Surr: Decachlorobiphenyl	87.7		"	66.7		131	55-130			S-04

Matrix Spike (0106015-MS1)

Source: M106005-02

Prepared & Analyzed: 06/04/01

Aroclor 1254	863	167	ug/kg dry	855	ND	101	55-130			
Surr: 2,4,5,6-Tetrachloro-m-xylene	90.3		"	85.5		106	55-130			
Surr: Decachlorobiphenyl	103		"	85.5		120	55-130			

Matrix Spike Dup (0106015-MSD1)

Source: M106005-02

Prepared & Analyzed: 06/04/01

Aroclor 1254	838	167	ug/kg dry	857	ND	97.8	55-130	2.94	40	
Surr: 2,4,5,6-Tetrachloro-m-xylene	91.6		"	85.7		107	55-130			
Surr: Decachlorobiphenyl	104		"	85.7		121	55-130			

North Creek Analytical - Mobile Lab

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North Creek Analytical, Inc.
Environmental Laboratory Network



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

BTEX and MTBE per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106011 - EPA 5030

Blank (0106011-BLK1)

Prepared & Analyzed: 06/03/01

Benzene	ND	0.500	ug/l							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Naphthalene	ND	10.0	"							
<i>Surr: 4-BFB</i>	88.1		"	100		88.1	75-120			

LCS (0106011-BS1)

Prepared & Analyzed: 06/03/01

Benzene	18.1	0.500	ug/l	20.0		90.5	67-130			
Toluene	17.5	0.500	"	20.0		87.5	75-126			
Ethylbenzene	18.9	0.500	"	20.0		94.5	76-124			
Xylenes (total)	53.1	1.00	"	60.0		88.5	75-126			
Naphthalene	22.1	10.0	"	20.0		110	75-126			
<i>Surr: 4-BFB</i>	88.7		"	100		88.7	75-120			

Matrix Spike (0106011-MS1)

Source: M106005-01

Prepared & Analyzed: 06/03/01

Benzene	18.0	0.500	ug/l	20.0	ND	90.0	67-130			
Toluene	18.0	0.500	"	20.0	ND	90.0	75-126			
Ethylbenzene	19.1	0.500	"	20.0	ND	95.5	76-124			
Xylenes (total)	53.7	1.00	"	60.0	ND	89.5	75-126			
Naphthalene	17.2	10.0	"	20.0	ND	86.0	67-130			
<i>Surr: 4-BFB</i>	89.6		"	100		89.6	75-120			

Matrix Spike Dup (0106011-MSD1)

Source: M106005-01

Prepared & Analyzed: 06/03/01

Benzene	18.0	0.500	ug/l	20.0	ND	90.0	67-130	0.00	13	
Toluene	18.0	0.500	"	20.0	ND	90.0	75-126	0.00	13	
Ethylbenzene	19.9	0.500	"	20.0	ND	99.5	76-124	4.10	15	
Xylenes (total)	53.6	1.00	"	60.0	ND	89.3	75-126	0.186	13	
Naphthalene	18.8	10.0	"	20.0	ND	94.0	67-130	8.89	13	
<i>Surr: 4-BFB</i>	88.5		"	100		88.5	75-120			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 10:06

BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106009 - MeOH Extraction

Blank (0106009-BLK1)

Prepared & Analyzed: 06/03/01

Benzene	ND	0.0250	mg/kg wet
Toluene	ND	0.100	"
Ethylbenzene	ND	0.100	"
Xylenes (total)	ND	0.200	"
Naphthalene	ND	1.00	"

Surr: 4-BFB 2.30 " 2.50 92.0 50-150

LCS (0106009-BS1)

Prepared & Analyzed: 06/03/01

Benzene	2.10	0.0250	mg/kg wet	2.50	84.0	69-138
Toluene	2.17	0.100	"	2.50	86.8	53-151
Ethylbenzene	2.38	0.100	"	2.50	95.2	61-141
Xylenes (total)	6.48	0.200	"	7.50	86.4	62-141
Naphthalene	3.19	1.00	"	2.50	128	65-135

Surr: 4-BFB 2.49 " 2.50 99.6 50-150

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Notes and Definitions

A-01 Acceptance criteria for CCV was exceeded high. Sample results are non detect and are not affected. DoD QSM Draft 5.9.4.2.E.1

D-11 Detected hydrocarbons in the heavy/oil range appear to be due to overlap of diesel range hydrocarbons.

D-14 Hydrocarbon pattern and range are consistent with 01AM1103MI - M106001-01.

D-14a Hydrocarbon pattern and range are consistent with 01AMA1103MI - M106001-01.

R-05 Reporting limits raised due to dilution necessary for analysis.

R-07 Reporting limits raised due to matrix interference and/or dilution necessary for analysis.

S-04 The surrogate recovery for this sample is outside of method established control limits.

S-08 Surrogate recovery is above control limits. Since no analytes were detected in the sample, the quality of the data has not been affected.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106005 FINAL 10 25 01 1006.mdb
			Default Report (not modified)
0106005-BLK1	AK102/103	Residual Range Organics	Additional analyte reported
0106007-BLK1	AK102/103	Residual Range Organics	Additional analyte reported
0106015-BLK1	8082 PCB	Decachlorobiphenyl	S-08
0106015-BLK1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	S-08
0106015-BLK1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	Exceeds upper control limit
0106015-BLK1	8082 PCB	Decachlorobiphenyl	Exceeds upper control limit
0106015-BS1	8082 PCB	Decachlorobiphenyl	Exceeds upper control limit
0106015-BS1	8082 PCB	Decachlorobiphenyl	S-04
0106015-BS1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	S-04
0106015-BS1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	Exceeds upper control limit
M106005-01	AK102/103	Residual Range Organics	Additional analyte reported
M106005-02	8082 PCB		A-01
M106005-02	AK102/103	Residual Range Organics	Additional analyte reported
M106005-02	AK102/103	Diesel Range Organics	D-14
M106005-03	8021B BTEX/MTBE/N		R-07
M106005-03	AK102/103		R-05
M106005-03	AK102/103	Diesel Range Organics	D-14a
M106005-03	AK102/103	Residual Range Organics	Additional analyte reported
M106005-03	AK102/103	Residual Range Organics	D-11